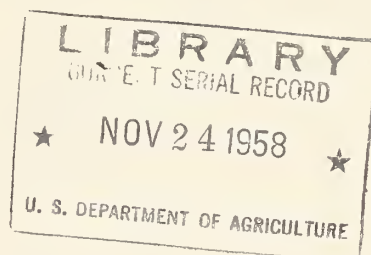


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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service
Cotton Division
Washington, D.C.



COTTON FIBER AND PROCESSING TEST RESULTS
CROP OF 1958

COTTON FIBER AND PROCESSING TEST RESULTS

Yarn appearance grades continue to average lower for the 1958-crop cotton tested through October 31 as compared with the same period in 1957. Picker and card waste and foreign matter content are on considerably lower levels than last year and average nep count is slightly higher. Other fiber properties continue to average about the same as last year.

Results contained in this report include early harvested cottons from New Mexico, California, and the Plains area of Texas; midseason lots from the South Central states and Oklahoma; and late season selections from the Southwestern area.

Western Area. Although the average nep count is slightly lower, for the most part, in New Mexico and California, yarn appearance grades are also on slightly lower levels than this time last year. Average yarn appearance index in the San Joaquin Valley of California is reported at 93 this season as compared with an index of 102 in 1957. Yarn grades are about the same as last year in New Mexico with an average index of 99. Strength of 22s yarn is generally on lower levels in the Western area as compared with last year, with the notable exception of the Imperial Valley of California where the strength of 22s yarn is averaging about 5 pounds higher than last year.

Southwestern Area. Early harvested cottons from the High Plains area of Texas in this report are very similar in fiber properties as those received from this area last year, except that yarn appearance grades and picker and card waste are on considerably lower levels than last year. Picker and card waste averages 6.8 percent and yarn appearance index is at 95 in the Lubbock area this year as compared with 9.2 percent waste and a yarn index of 104 at this time last year.

South Central Area. Yarn strength and appearance grades are considerably lower in the South Central states as compared with last year. Average yarn strength in this area is 108 pounds for 22s yarn, and the yarn appearance index averages 96 this year as compared with a yarn strength of 114 pounds and an appearance index of 104 in 1957. Results of tests on other fiber properties in this area are running about the same as last year.

Southeastern Area. Late harvested cottons arriving from the Southeastern states are showing some improvement over those received last year. Although yarn appearance grades are still averaging slightly lower, strength of 22s yarn is averaging 115 pounds or 3 pounds higher than 1957.

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Table 1.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 12-1/2 pounds per hour and a twist multiplier of 4.40, crop of 1958

Variety	:Blightmaster :	Gregg	: Paymaster
State	:	Texas	:
Market area	: Ropesville :	Plainview	: Aiken
Percentage of variety at gin	: 100 :	80	: 100
Period of harvest	: Early :	Early	: Early
RAW COTTON QUALITY	:	:	:
Classification (official standards):	:	:	:
Grade-----designation:	M	IM+	Mltsp
Staple length-----inches:	1	1	31/32
Fiber length (Fibrograph):	:	:	:
Upper half mean-----inches:	1.01	.97	.94
Uniformity-----ratio:	75	82	80
Fiber fineness and maturity:	:	:	:
Micronaire-----reading <u>1</u> /:	4.2	4.2	3.8
Fineness (Causticaire)---ug/inch <u>2</u> /:	4.3	4.5	3.8
Maturity (")-----index:	77	77	76
Fiber tensile strength (Pressley):	:	:	:
Zero gauge-----1,000 p.s.i.:	81	85	77
" " -----grams per tex <u>3</u> /:	40.1	42.1	38.1
1/8" " ----- " " " " " " ::	20.7	23.9	21.1
Nonlint content: <u>4</u> /	:	:	:
Visible waste-----percent:	1.1	2.6	1.6
Invisible waste----- "	1.4	1.2	1.4
Total nonlint content----- "	2.5	3.8	3.0
Color of raw cotton: <u>5</u> /	:	:	:
Reflectance-----Rd:	74.9	73.7	72.5
Yellowness-----+b:	8.3	7.5	9.5
Sugar content-----percent:	0.0	0.1	0.1
Acid-alkaline value-----pH units <u>6</u> /:	7.8	7.5	7.5
PROCESSING RESULTS	:	:	:
Manufacturing waste:	:	:	:
Picker and card-----percent:	6.2	7.3	6.7
Neps-----per 100 sq. in. of card web:	22	7	31
Yarn skein strength:	:	:	:
8s (73.8 tex)-----pounds:	345	386	342
22s (26.8 ")----- "	103	120	106
Average break factor----- <u>7</u> /:	2513	2864	2534
Yarn appearance:	:	:	:
8s (73.8 tex)-----grade:	B	B	C+
22s (26.8 ")----- "	C+	C+	C+
Average yarn appearance----index <u>8</u> /:	105	105	100

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For footnotes see page 24.

For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958

Variety	:	Acala 4-42						
State	:	California						
Market area	:	Corcoran	:	Shafter	:	Thermal		
Percentage of variety at gin	:	100	:	100	:	100		
Period of harvest	:	Early	:	Early	:	Midseason: Midseason		
RAW COTTON QUALITY	:	:	:	:	:	:		
Classification (official standards):	:	:	:	:	:	:		
Grade-----designation:	:	M	:	SM	:	M	:	SM
Staple length-----inches:	:	1-1/16	:	1-1/16	:	1-1/16	:	1-1/32
Fiber length (Fibrograph):	:	:	:	:	:	:	:	:
Upper half mean-----inches:	:	1.04	:	1.05	:	1.04	:	1.04
Uniformity-----ratio:	:	82	:	82	:	80	:	80
Fiber fineness and maturity:	:	:	:	:	:	:	:	:
Micronaire-----reading 1/:	:	4.6	:	4.7	:	4.4	:	4.5
Fineness (Causticaire)---ug/inch 2/:	:	4.8	:	4.6	:	4.6	:	4.6
Maturity (")-----index:	:	79	:	80	:	79	:	79
Fiber tensile strength (Pressley):	:	:	:	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	90	:	93	:	85	:	96
" " -----grams per tex 3/:	:	44.6	:	46.0	:	42.1	:	47.5
1/8" " ----- " " " " " " :	:	25.0	:	25.4	:	24.8	:	26.5
Nonlint content: 4/	:	:	:	:	:	:	:	:
Visible waste-----percent:	:	1.5	:	1.4	:	1.8	:	1.5
Invisible waste----- " :	:	1.0	:	0.9	:	1.5	:	1.4
Total nonlint content----- " :	:	2.5	:	2.3	:	3.3	:	2.9
Color of raw cotton: 5/	:	:	:	:	:	:	:	:
Reflectance-----Rd:	:	77.3	:	79.6	:	73.5	:	78.4
Yellowness-----+b:	:	8.3	:	8.1	:	8.2	:	8.7
Sugar content-----percent:	:	0.2	:	0.2	:	0.2	:	0.2
Acid-alkaline value-----pH units 6/:	:	7.0	:	7.4	:	6.8	:	6.8
PROCESSING RESULTS	:	:	:	:	:	:	:	:
Manufacturing waste:	:	:	:	:	:	:	:	:
Picker and card-----percent:	:	7.0	:	7.2	:	6.5	:	7.0
Neps-----per 100 sq. in. of card web:	:	5	:	6	:	6	:	12
Yarn skein strength:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	130	:	135	:	127	:	141
50s (11.8 ")----- " :	:	46	:	45	:	45	:	50
Average break factor-----7/:	:	2580	:	2610	:	2522	:	2801
Yarn appearance:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	C+	:	C+	:	C+	:	C+
50s (11.8 ")----- " :	:	C	:	C	:	C	:	C
Average yarn appearance-----index 8/:	:	95	:	95	:	95	:	95

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:Acala 4-42:	Arizona 44:	Coker 100W	
State	:California:	Arizona :	Alabama	
Market area	:Woodville :	Yuma :	Ft.Deposit:	Wetumpka
Percentage of variety at gin	: 100	: 95	: 100	: 80
Period of harvest	: Early	: Midseason:	Late	: Late
RAW COTTON QUALITY	:	:	:	:
Classification (official standards):	:	:	:	:
Grade-----designation:	SM	SM	SIM	SIM
Staple length-----inches:	1-1/16	1-1/16	1-1/16	1-1/16
Fiber length (Fibrograph):	:	:	:	:
Upper half mean-----inches:	1.03	1.08	1.04	1.06
Uniformity-----ratio:	80	80	79	80
Fiber fineness and maturity:	:	:	:	:
Micronaire-----reading <u>1</u> /:	4.7	4.4	4.2	3.8
Fineness (Causticaire)---ug/inch <u>2</u> /:	4.7	4.2	4.6	4.1
Maturity (")-----index:	80	80	76	74
Fiber tensile strength (Pressley):	:	:	:	:
Zero gauge-----1,000 p.s.i.:	93	93	81	78
" " -----grams per tex <u>3</u> /:	46.0	46.0	40.0	38.8
1/8" " ----- " " " " " :	24.6	24.5	19.9	20.7
Nonlint content: <u>4</u> /	:	:	:	:
Visible waste-----percent:	1.0	1.3	3.3	2.3
Invisible waste----- " :	1.0	1.5	0.9	0.8
Total nonlint content----- " :	2.0	2.8	4.2	3.1
Color of raw cotton: <u>5</u> /	:	:	:	:
Reflectance-----Rd:	77.3	78.5	75.7	70.6
Yellowness-----+b:	7.8	9.1	9.6	8.6
Sugar content-----percent:	0.2	0.2	0.1	0.0
Acid-alkaline value-----pH units <u>6</u> /:	7.4	7.8	8.0	9.1
PROCESSING RESULTS	:	:	:	:
Manufacturing waste:	:	:	:	:
Picker and card-----percent:	7.8	6.5	9.0	8.0
Neps-----per 100 sq. in. of card web:	5	16	18	20
Yarn skein strength:	:	:	:	:
22s (26.8 tex)-----pounds:	128	124	108	109
50s (11.8 ")----- " :	45	44	37	38
Average break factor----- <u>7</u> /:	2533	2464	2113	2149
Yarn appearance:	:	:	:	:
22s (26.8 tex)-----grade:	C+	C+	B	C+
50s (11.8 ")----- " :	D+	D+	C+	C+
Average yarn appearance----index <u>8</u> /:	90	90	105	100

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	Coker 100 W			
State	Georgia			
Market area	Baxley	Bellville	Cartersville	Gough
Percentage of variety at gin	98	85	75	98
Period of harvest	Late	Late	Late	Late
RAW COTTON QUALITY				
Classification (official standards):				
Grade-----designation:	SIM	SIM	M	SIM
Staple length-----inches:	1-1/32	1-1/32	1-1/16	1
Fiber length (Fibrograph):				
Upper half mean-----inches:	1.02	1.03	1.07	1.01
Uniformity-----ratio:	81	81	80	79
Fiber fineness and maturity:				
Micronaire-----reading <u>1/</u> :	3.7	3.5	3.8	3.6
Fineness (Causticaire)---ug/inch <u>2/</u> :	4.0	3.8	4.0	3.9
Maturity (")-----index:	74	72	75	73
Fiber tensile strength (Pressley):				
Zero gauge-----1,000 p.s.i.:	82	85	79	83
" " -----grams per tex <u>3/</u> :	40.5	42.2	38.9	40.9
1/8" " ----- " " " :	20.5	21.4	21.2	20.9
Nonlint content: <u>4/</u>				
Visible waste-----percent:	2.1	2.2	3.1	1.4
Invisible waste----- " :	0.4	0.7	0.6	0.5
Total nonlint content----- " :	2.5	2.9	3.7	1.9
Color of raw cotton: <u>5/</u>				
Reflectance-----Rd:	75.7	74.8	77.0	74.8
Yellowness-----+b:	7.5	8.1	7.9	7.7
Sugar content-----percent:	0.1	0.2	0.2	0.1
Acid-alkaline value-----pH units <u>6/</u> :	7.9	7.7	7.7	8.2
PROCESSING RESULTS				
Manufacturing waste:				
Picker and card-----percent:	7.8	8.2	8.2	7.5
Neps-----per 100 sq. in. of card web:	34	28	30	26
Yarn skein strength:				
22s (26.8 tex)-----pounds:	115	119	119	114
50s (11.8 ")----- " :	39	41	42	39
Average break factor----- <u>7/</u> :	2240	2334	2359	2229
Yarn appearance:				
22s (26.8 tex)-----grade:	C+	C+	C	B
50s (11.8 ")----- " :	C	C+	C	C+
Average yarn appearance----index <u>8/</u> :	95	100	90	105

Continued on page 8

For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Coker 100 W			:	Deltapine 15		
State	:	Georgia	:	North Carolina	:	Alabama		
Market area	:	Rochelle	:	Dunn	:	Wilson	:	Tuscaloosa
Percentage of variety at gin	:	90	:	95	:	99	:	95
Period of harvest	:	Late	:	Late	:	Late	:	Early
RAW COTTON QUALITY								
Classification (official standards):	:	:	:	:	:	:	:	:
Grade-----designation:	:	SIM	:	SIM	:	SIM	:	SIM
Staple length-----inches:	:	1-1/32	:	1-1/32	:	1-1/32	:	1-1/32
Fiber length (Fibrograph):	:	:	:	:	:	:	:	:
Upper half mean-----inches:	:	1.03	:	1.02	:	1.04	:	1.02
Uniformity-----ratio:	:	80	:	80	:	81	:	80
Fiber fineness and maturity:	:	:	:	:	:	:	:	:
Micronaire-----reading 1/:	:	4.0	:	4.2	:	4.1	:	4.1
Fineness (Causticaire)---ug/inch 2/:	:	4.1	:	4.6	:	4.3	:	4.4
Maturity (")-----index:	:	77	:	76	:	76	:	76
Fiber tensile strength (Pressley):	:	:	:	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	80	:	84	:	77	:	80
" " -----grams per tex 3/:	:	39.6	:	41.5	:	38.2	:	39.4
1/8" " ----- " " " :	:	20.1	:	20.1	:	21.1	:	19.4
Nonlint content: 4/	:	:	:	:	:	:	:	:
Visible waste-----percent:	:	2.4	:	1.9	:	1.5	:	2.5
Invisible waste----- "	:	0.6	:	0.7	:	0.8	:	1.2
Total nonlint content----- "	:	3.0	:	2.6	:	2.3	:	3.7
Color of raw cotton: 5/	:	:	:	:	:	:	:	:
Reflectance-----Rd:	:	71.5	:	70.5	:	72.8	:	74.5
Yellowness-----+b:	:	8.0	:	8.0	:	7.6	:	8.7
Sugar content-----percent:	:	0.1	:	0.1	:	0.0	:	0.0
Acid-alkaline value-----pH units 6/:	:	8.0	:	7.9	:	8.9	:	8.3
PROCESSING RESULTS								
Manufacturing waste:	:	:	:	:	:	:	:	:
Picker and card-----percent:	:	7.3	:	8.1	:	7.8	:	8.1
Neps-----per 100 sq. in. of card web:	:	19	:	22	:	26	:	15
Yarn skein strength:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	113	:	111	:	115	:	111
50s (11.8 ")----- "	:	39	:	39	:	40	:	38
Average break factor-----7/:	:	2218	:	2196	:	2265	:	2171
Yarn appearance:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	C+	:	C+	:	C+	:	B
50s (11.8 ")----- "	:	C+	:	C+	:	C+	:	C+
Average yarn appearance----index 8/:	:	100	:	100	:	100	:	105

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Deltapine 15			
State	:	Alabama	:	Arkansas	
Market area	:	Tuscumbia	:	Lake Village	McGehee
Percentage of variety at gin	:	100	:	100	98
Period of harvest	:	Early	:Midseason:	Early	Early
RAW COTTON QUALITY	:	:	:	:	:
Classification (official standards):	:	:	:	:	:
Grade-----designation:	M	M	SIM	SIM	
Staple length-----inches:	1-1/16:	1-1/32:	1-1/16	1-1/16	
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	1.06	1.06	1.09	1.09	
Uniformity-----ratio:	82	83	79	79	
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading 1/:	4.4	4.4	4.8	4.4	
Fineness (Causticaire)---ug/inch 2/:	4.5	4.5	4.9	4.6	
Maturity (")-----index:	78	78	79	78	
Fiber tensile strength (Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	76	79	78	76	
" " -----grams per tex 3/:	37.7	38.9	38.6	37.6	
1/8" " ----- " " " " " " :	21.0	20.1	20.1	20.9	
Nonlint content: 4/	:	:	:	:	:
Visible waste-----percent:	1.8	1.7	1.1	1.5	
Invisible waste----- " :	0.7	0.2	1.1	1.4	
Total nonlint content----- " :	2.4	1.9	2.2	2.9	
Color of raw cotton: 5/	:	:	:	:	:
Reflectance-----Rd:	74.6	76.5	73.2	73.5	
Yellowness-----+b:	8.9	8.3	7.9	8.4	
Sugar content-----percent:	0.1	0.2	0.0	0.0	
Acid-alkaline value-----pH units 6/:	8.0	7.4	8.4	7.2	
PROCESSING RESULTS	:	:	:	:	:
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	7.7	7.2	7.2	7.5	
Neps-----per 100 sq. in. of card web:	18	16	9	7	
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	107	118	106	106	
50s (11.8 ")----- " :	38	41	37	37	
Average break factor-----7/:	2127	2323	2091	2091	
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	C+	B	C+	C	
50s (11.8 ")----- " :	C+	C+	C	C	
Average yarn appearance----index 8/:	100	105	95	90	

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Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Deltapine 15			
State	:	Louisiana			
Market area	:	Bonita	: Bunkie	:Chenyvillle:	Gilbert
Percentage of variety at gin	:	93	: 98	: 99	: 99
Period of harvest	:	Midseason	:Midseason	:Midseason	:Midseason
RAW COTTON QUALITY	:	:	:	:	:
Classification (official standards):	:	:	:	:	:
Grade-----designation:	SIM	:	SIMltsp:	IM	: SIMltsp
Staple length-----inches:	1-3/32	:	1-1/16	: 1-1/16	: 1-1/16
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	1.10	:	1.05	: 1.06	: 1.04
Uniformity-----ratio:	81	:	80	: 81	: 78
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading <u>1</u> /:	4.4	:	4.8	: 4.5	: 4.9
Fineness (Causticaire)---ug/inch <u>2</u> /:	4.5	:	5.0	: 4.5	: 5.1
Maturity (")-----index:	79	:	80	: 80	: 80
Fiber tensile strength (Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	78	:	75	: 74	: 79
" " -----grams per tex <u>3</u> /:	38.6	:	37.1	: 36.6	: 39.1
1/8" " ----- " " " :	22.8	:	20.7	: 21.5	: 20.1
Nonlint content: <u>4</u> /	:	:	:	:	:
Visible waste-----percent:	2.0	:	1.3	: 2.0	: 1.9
Invisible waste----- "	1.0	:	1.4	: 1.2	: 1.6
Total nonlint content----- "	3.0	:	2.7	: 3.2	: 3.5
Color of raw cotton: <u>5</u> /	:	:	:	:	:
Reflectance-----Rd:	75.0	:	70.5	: 68.5	: 66.5
Yellowness-----+b:	8.1	:	7.4	: 8.0	: 8.7
Sugar content-----percent:	0.1	:	0.0	: 0.0	: 0.0
Acid-alkaline value-----pH units <u>6</u> /:	7.1	:	7.2	: 6.9	: 7.3
PROCESSING RESULTS	:	:	:	:	:
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	7.4	:	7.9	: 8.2	: 9.4
Neps-----per 100 sq. in. of card web:	8	:	10	: 19	: 11
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	114	:	98	: 102	: 93
50s (11.8 ")----- "	40	:	33	: 35	: 31
Average break factor----- <u>7</u> /:	2254	:	1903	: 1997	: 1798
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	C+	:	C+	: C	: C
50s (11.8 ")----- "	D+	:	D+	: D+	: D
Average yarn appearance---index <u>8</u> /:	90	:	90	: 85	: 80

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Deltapine 15			
State	:	Louisiana		:Mississippi	
Market area	:	Natchitoches	Shreveport	Waterproof	Booneville
Percentage of variety at gin	:	100	: 100	: 94	: 95
Period of harvest	:	Midseason	:Midseason	: Early	:Midseason
RAW COTTON QUALITY					
Classification (official standards):	:	:	:	:	:
Grade-----designation:	:	IM	: SIM	: SIM	: SIM
Staple length-----inches:	:	1-1/32	: 1-1/16	: 1-1/16	: 1-1/16
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	:	1.04	: 1.09	: 1.09	: 1.07
Uniformity-----ratio:	:	75	: 81	: 78	: 79
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading 1/:	:	3.9	: 4.8	: 4.6	: 4.3
Fineness (Causticaire)-ug/inch 2/:	:	4.2	: 4.9	: 4.6	: 4.5
Maturity (")-----index:	:	74	: 80	: 81	: 77
Fiber tensile strength (Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	75	: 80	: 78	: 74
" " -----grams per tex 3/:	:	37.1	: 39.6	: 38.6	: 36.6
1/8" " -----" " " :	:	21.5	: 22.6	: 21.2	: 19.4
Nonlint content: 4/	:	:	:	:	:
Visible waste-----percent:	:	2.3	: 1.5	: 2.2	: 1.6
Invisible waste----- "	:	1.6	: 1.3	: 1.3	: 1.0
Total nonlint content----- "	:	3.9	: 2.8	: 3.5	: 2.6
Color of raw cotton: 5/	:	:	:	:	:
Reflectance-----Rd:	:	74.3	: 74.5	: 69.3	: 70.5
Yellowness-----+b:	:	7.8	: 7.8	: 7.8	: 8.1
:	:	:	:	:	:
Sugar content-----percent:	:	0.0	: 0.0	: 0.1	: 0.1
Acid-alkaline value-----pH units 6/:	:	7.5	: 8.0	: 7.6	: 7.6
PROCESSING RESULTS					
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	:	9.8	: 7.8	: 8.3	: 6.6
Neps----per 100 sq. in. of card web:	:	20	: 10	: 8	: 8
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	99	: 111	: 106	: 106
50s (11.8 ")----- "	:	33	: 39	: 37	: 36
Average break factor-----7/:	:	1914	:2196	:2091	:2066
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	D+	: C+	: C+	: C+
50s (11.8 ")----- "	:	D	: C	: D+	: C+
Average yarn appearance--index 8/:	:	75	: 95	: 85	: 100

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Deltapine 15			
State	:	Mississippi			
Market area	:	Edwards	: Grenada	: Prentiss	: Senatobia
Percentage of variety at gin	:	90	: 90	: 90	: 95
Period of harvest	:	Midseason	: Midseason	: Late	: Midseason
RAW COTTON QUALITY					
Classification (official standards):	:	:	:	:	:
Grade-----designation:	:	Mltsp	: SIMltsp	: Mltsp	: M
Staple length-----inches:	:	1-1/16	: 1-1/16	: 1-1/32	: 1-1/16
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	:	1.03	: 1.05	: 1.03	: 1.04
Uniformity-----ratio:	:	77	: 76	: 78	: 77
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading <u>1</u> /:	:	4.8	: 4.2	: 4.3	: 4.3
Fineness (Causticaire)---ug/inch <u>2</u> /:	:	5.1	: 4.6	: 4.5	: 4.4
Maturity (")-----index:	:	79	: 76	: 77	: 78
Fiber tensile strength (Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	79	: 74	: 73	: 76
" " -----grams per tex <u>3</u> /:	:	39.1	: 36.6	: 36.1	: 37.6
1/8" " ----- " " " :	:	19.0	: 19.1	: 18.8	: 19.1
Nonlint content: <u>4</u> /	:	:	:	:	:
Visible waste-----percent:	:	1.6	: 1.3	: 1.1	: 1.4
Invisible waste----- " :	:	1.8	: 1.4	: 1.4	: 0.9
Total nonlint content----- " :	:	3.4	: 2.7	: 2.5	: 2.3
Color of raw cotton: <u>5</u> /	:	:	:	:	:
Reflectance-----Rd:	:	67.0	: 71.5	: 74.8	: 73.5
Yellowness-----+b:	:	8.3	: 9.1	: 9.5	: 7.9
Sugar content-----percent:	:	0.0	: 0.0	: 0.0	: 0.0
Acid-alkaline value-----pH units <u>6</u> /:	:	8.5	: 7.5	: 8.0	: 7.6
PROCESSING RESULTS					
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	:	8.8	: 8.8	: 7.5	: 6.9
Neps-----per 100 sq. in. of card web:	:	7	: 6	: 11	: 9
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	96	: 104	: 98	: 108
50s (11.8 ")----- " :	:	32	: 35	: 33	: 37
Average break factor----- <u>7</u> /:	:	1856	: 2019	: 1903	: 2113
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	B	: C+	: C+	: C+
50s (11.8 ")----- " :	:	C	: C	: D+	: C+
Average yarn appearance---index <u>8</u> /:	:	100	: 95	: 90	: 100

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Deltapine 15			
State	:	Mississippi:	Missouri:	Oklahoma :	Tennessee
Market area	:	Woodland :	Hayti :	Webber Falls:	Brownsville
Percentage of variety at gin	:	98	: 75	: 95	: 96
Period of harvest	:	Midseason	: Midseason:	Midseason	: Midseason
RAW COTTON QUALITY	:	:	:	:	:
Classification (official standards)	:	:	:	:	:
Grade-----designation:	:	SIM	: M	: SIM	: M
Staple length-----inches:	:	1-1/16:	1-3/32:	1-1/16	: 1-1/16
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	:	1.09	: 1.11	: 1.09	: 1.04
Uniformity-----ratio:	:	78	: 78	: 81	: 80
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading <u>1</u> /:	:	4.7	: 4.2	: 4.7	: 4.6
Fineness(Causticaire)--ug/inch <u>2</u> /:	:	4.9	: 4.2	: 4.4	: 5.0
Maturity(")-----index:	:	79	: 78	: 83	: 78
Fiber tensile strength(Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	74	: 80	: 81	: 80
" " -----grams per tex <u>3</u> /:	:	36.6	: 39.6	: 40.1	: 39.6
1/8" " -----" " " :	:	19.5	: 21.4	: 22.6	: 20.7
Nonlint content: <u>4</u> / ₁₆	:	:	:	:	:
Visible waste-----percent:	:	1.4	: 1.5	: 2.4	: 0.9
Invisible waste-----"	:	1.0	: 1.3	: 1.2	: 0.7
Total nonlint content-----"	:	2.4	: 2.8	: 3.6	: 1.6
Color of raw cotton: <u>5</u> / ₁₀	:	:	:	:	:
Reflectance-----Rd:	:	70.6	: 77.0	: 75.6	: 70.6
Yellowness-----+b:	:	8.0	: 8.1	: 7.9	: 9.5
Sugar content-----percent:	:	0.0	: 0.1	: 0.0	: 0.0
Acid-alkaline value-----pH units <u>6</u> / ₁₀ :	:	8.1	: 6.8	: 7.6	: 8.5
PROCESSING RESULTS	:	:	:	:	:
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	:	6.6	: 6.0	: 7.4	: 6.6
Neps----per 100 sq. in. of card web:	:	5	: 13	: 9	: 5
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	103	: 120	: 123	: 112
50s (11.8 ")-----"	:	36	: 42	: 42	: 38
Average break factor----- <u>7</u> / ₁₆ :	:	2033	: 2370	: 2403	: 2182
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	B	: C+	: B	: C+
50s (11.8 ")-----"	:	C+	: D+	: C+	: C+
Average yarn appearance--index <u>8</u> / ₁₀ :	:	105	: 90	: 105	: 100

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Deltapine 15	:	Deltapine Fox
State	:	Tennessee	:	Texas
Market area	:	Dyersburg	:	Jackson
Percentage of variety at gin	:	95	:	90
Period of harvest	:	Midseason	:	Midseason
RAW COTTON QUALITY	:	:	:	:
Classification (official standards):	:	:	:	:
Grade-----designation:	M	:	M	:
Staple length-----inches:	1-3/32	:	1-1/32	:
Fiber length (Fibrograph):	:	:	:	:
Upper half mean-----inches:	1.09	:	1.00	:
Uniformity-----ratio:	78	:	79	:
Fiber fineness and maturity:	:	:	:	:
Micronaire-----reading <u>1</u> /	4.4	:	4.4	:
Fineness (Causticaire)--ug/inch <u>2</u> /	4.3	:	4.6	:
Maturity (")-----index:	79	:	78	:
Fiber tensile strength (Pressley):	:	:	:	:
Zero gauge-----1,000 p.s.i.:	80	:	76	:
" " -----grams per tex <u>3</u> /	39.6	:	37.6	:
1/8" " ----- " " " :	22.5	:	19.6	:
Nonlint content: <u>4</u> /	:	:	:	:
Visible waste-----percent:	0.9	:	1.9	:
Invisible waste----- " :	0.7	:	0.9	:
Total nonlint content----- " :	1.7	:	2.8	:
Color of raw cotton: <u>5</u> /	:	:	:	:
Reflectance-----Rd:	75.5	:	71.5	:
Yellowness-----+b:	8.9	:	9.3	:
Sugar content-----percent:	0.0	:	0.0	:
Acid-alkaline value-----pH units <u>6</u> /	9.0	:	9.0	:
PROCESSING RESULTS	:	:	:	:
Manufacturing waste:	:	:	:	:
Picker and card-----percent:	5.7	:	7.0	:
Neps-----per 100 sq. in. of card web:	13	:	9	:
Yarn skein strength:	:	:	:	:
22s (26.8 tex)-----pounds:	118	:	104	:
50s (11.8 ")----- " :	42	:	35	:
Average break factor----- <u>7</u> /	2348	:	2019	:
Yarn appearance:	:	:	:	:
22s (26.8 tex)-----grade:	C+	:	C+	:
50s (11.8 ")----- " :	D+	:	C	:
Average yarn appearance---index <u>8</u> /	90	:	95	:

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	Deltapine Fox:		Empire	
State	Missouri	Alabama	Georgia	
Market area	Essex	Pisgah	Soperton	Haralson
Percentage of variety at gin	96	98	75	100
Period of harvest	Midseason	Early	Late	Late
RAW COTTON QUALITY				
Classification (official standards):				
Grade-----designation:	M	M	SIM	SIM
Staple length-----inches:	1-3/32	1-1/32	1	1-1/32
Fiber length (Fibrograph):				
Upper half mean-----inches:	1.11	1.06	.97	1.04
Uniformity-----ratio:	81	80	78	81
Fiber fineness and maturity:				
Micronaire-----reading <u>1</u> /:	4.6	3.8	3.7	3.8
Fineness (Causticaire)---ug/inch <u>2</u> /:	4.8	4.2	4.1	4.2
Maturity (")-----index:	79	73	73	74
Fiber tensile strength (Pressley):				
Zero gauge-----1,000 p.s.i.:	77	80	88	79
" " -----grams per tex <u>3</u> /:	38.1	39.6	43.6	39.2
1/8" " ----- " " " :	22.6	20.9	20.9	19.6
Nonlint content: <u>4</u> /				
Visible waste-----percent:	1.6	1.0	1.2	1.5
Invisible waste----- " :	1.0	0.8	0.5	1.1
Total nonlint content----- " :	2.6	1.8	1.7	2.6
Color of raw cotton: <u>5</u> /				
Reflectance-----Rd:	78.5	77.3	75.0	72.6
Yellowness-----+b:	7.9	8.0	8.2	7.7
Sugar content-----percent:	0.2	0.2	0.2	0.1
Acid-alkaline value-----pH units <u>6</u> /:	7.2	7.1	7.6	8.7
PROCESSING RESULTS				
Manufacturing waste:				
Picker and card-----percent:	6.4	7.2	7.4	8.1
Neps-----per 100 sq.in. of card web:	7	25	30	19
Yarn skein strength:				
22s (26.8 tex)-----pounds:	116	116	113	112
50s (11.8 ")----- " :	40	41	38	40
Average break factor----- <u>7</u> /:	2276	2301	2193	2232
Yarn appearance:				
22s (26.8 tex)-----grade:	C+	C+	C+	C+
50s (11.8 ")----- " :	C	C+	C	C
Average yarn appearance----index <u>8</u> /:	95	100	95	95

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958

Variety	:	Empire	:	Lankart	:			
State	:	Tennessee	:	Oklahoma	:			
Market area	:	Fayetteville:	Hinton	:	Minco : Snyder			
Percentage of variety at gin:		85	:	95	:	90	:	85
Period of harvest	:	Midseason	:	Midseason:	Midseason:	Midseason:	Midseason:	
RAW COTTON-QUALITY								
Classification (official standards)	:	:	:	:	:	:	:	:
Grade-----designation:		M	:	M	:	SIM	:	M
Staple length-----inches:		1-1/16	:	1	:	1	:	1
Fiber length (Fibrograph):	:	:	:	:	:	:	:	:
Upper half mean-----inches:		1.04	:	1.00	:	1.03	:	.98
Uniformity-----ratio:		78	:	80	:	82	:	78
Fiber fineness and maturity:	:	:	:	:	:	:	:	:
Micronaire-----reading 1/:		3.8	:	4.5	:	4.6	:	4.3
Fineness (Causticaire)--ug/inch 2/:		4.1	:	4.7	:	4.1	:	4.4
Maturity (")-----index:		74	:	78	:	78	:	78
Fiber tensile strength (Pressley):	:	:	:	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:		78	:	81	:	80	:	83
" " -----grams per tex 3/:		38.6	:	40.1	:	39.6	:	41.1
1/8" " ----- " " " :		20.9	:	21.4	:	19.8	:	22.5
Nonlint content: 4/	:	:	:	:	:	:	:	:
Visible waste-----percent:		0.7	:	1.3	:	1.5	:	1.3
Invisible waste----- "	:	0.9	:	1.0	:	0.9	:	0.9
Total nonlint content----- "	:	1.6	:	2.3	:	2.4	:	2.2
Color of raw cotton: 5/	:	:	:	:	:	:	:	:
Reflectance-----Rd:		77.3	:	73.6	:	74.6	:	74.5
Yellowness-----+b:		8.6	:	9.1	:	9.1	:	9.3
Sugar content-----percent:		0.1	:	0.2	:	0.1	:	0.2
Acid-alkaline value-----pH units 6/:		7.6	:	7.3	:	7.7	:	7.4
PROCESSING RESULTS								
Manufacturing waste:	:	:	:	:	:	:	:	:
Picker and card-----percent:		5.3	:	8.2	:	7.2	:	7.2
Neps-----per 100 sq. in. of card web:		15	:	7	:	8	:	14
Yarn skein strength:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----pounds:		114	:	108	:	108	:	111
50s (11.8 ")----- "	:	39	:	37	:	37	:	37
Average break factor-----7/:		2229	:	2113	:	2113	:	2146
Yarn appearance:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----grade:		C+	:	C+	:	B	:	C
50s (11.8 ")----- "	:	C	:	C	:	C+	:	D+
Average yarn appearance---index 8/:		95	:	95	:	105	:	85

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Lankart	:	:	:
State	:	Texas	:	:	:
Market area	:	Bonham	:	Cooper	:Lubbock :Waxahachie
Percentage of variety at gin	:	99	:	85	: 90 : 90
Period of harvest	:	Midseason	:	Midseason	:Midseason:Midseason
RAW COTTON QUALITY	:	:	:	:	:
Classification (official standards):	:	:	:	:	:
Grade-----designation:	:	SIM	:	Mltsp	: M : SIMltsp
Staple length-----inches:	:	31/32	:	15/16	: 1-1/2 : 15/16
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	:	.98	:	.94	: 1.04 : .94
Uniformity-----ratio:	:	79	:	81	: 80 : 77
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading <u>1</u> /:	:	4.6	:	5.0	: 4.6 : 4.6
Fineness (Causticaire)---ug/inch <u>2</u> /:	:	4.9	:	5.4	: 4.8 : 4.9
Maturity (")-----index:	:	79	:	79	: 78 : 79
Fiber tensile strength (Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	86	:	81	: 75 : 82
" " -----grams per tex <u>3</u> /:	:	42.6	:	40.1	: 37.1 : 40.6
1/8" " ----- " " " " :	:	21.4	:	19.7	: 20.5 : 19.3
Nonlint content: <u>4</u> /	:	:	:	:	:
Visible waste-----percent:	:	3.3	:	2.3	: 1.0 : 2.8
Invisible waste----- " :	:	1.0	:	1.1	: 1.3 : 2.0
Total nonlint content----- " :	:	4.3	:	3.4	: 2.3 : 4.8
Color of raw cotton: <u>5</u> /	:	:	:	:	:
Reflectance-----Rd:	:	70.5	:	70.4	: 72.5 : 67.0
Yellowness-----+b:	:	9.1	:	9.4	: 8.8 : 9.3
Sugar content-----percent:	:	0.0	:	0.0	: 0.2 : 0.0
Acid-alkaline value-----pH units <u>6</u> /:	:	8.1	:	7.8	: 7.4 : 8.3
PROCESSING RESULTS	:	:	:	:	:
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	:	9.0	:	8.8	: 6.2 : 10.2
Neps-----per 100 sq. in. of card web:	:	8	:	5	: 10 : 9
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	105	:	97	: 103 : 92
50s (11.8 ")----- " :	:	35	:	32	: 35 : 29
Average break factor----- <u>7</u> /:	:	2030	:	1867	: 2008 : 1737
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	C+	:	C+	: C+ : C+
50s (11.8 ")----- " :	:	C	:	C	: C : D+
Average yarn appearance----index <u>8</u> /:	:	95	:	95	: 95 : 90

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	Lankart 57:	Lankart 611:	Northern Star
State	Texas	Texas	Texas
Market area	Anton	Idalou	O'Brien :Silverton
Percentage of variety at gin	100	100	90 : 80
Period of harvest	Early	Early	Midseason: Early
RAW COTTON QUALITY			
Classification (official standards):			
Grade-----designation:	M	M	M : SIM
Staple length-----inches:	1	1-1/32	31/32 : 31/32
Fiber length (Fibrograph):			
Upper half mean-----inches:	1.00	1.00	1.00 : 1.00
Uniformity-----ratio:	77	78	80 : 78
Fiber fineness and maturity:			
Micronaire-----reading 1/:	4.7	3.8	4.8 : 3.6
Fineness (Causticaire)---ug/inch 2/:	4.7	4.2	4.9 : 3.9
Maturity (")-----index:	80	74	80 : 71
Fiber tensile strength (Pressley):			
Zero gauge-----1,000 p.s.i.:	70	80	81 : 77
" " -----grams per tex 3/:	34.6	39.6	40.1 : 38.1
1/8" " ----- " " " " :	19.6	21.5	21.6 : 20.9
Nonlint content: 4/			
Visible waste-----percent:	0.7	0.9	1.1 : 1.7
Invisible waste----- " :	1.9	1.3	0.9 : 2.0
Total nonlint content----- " :	2.6	2.2	2.0 : 3.7
Color of raw cotton: 5/			
Reflectance-----Rd:	74.6	74.3	74.8 : 74.5
Yellowness-----+b:	9.1	8.5	9.5 : 7.9
Sugar content-----percent:	0.2	0.3	0.1 : 0.2
Acid-alkaline value-----pH units 6/:	7.6	7.3	7.5 : 7.4
PROCESSING RESULTS			
Manufacturing waste:			
Picker and card-----percent:	7.2	6.7	7.0 : 7.8
Neps-----per 100 sq. in. of card web:	8	13	13 : 21
Yarn skein strength:			
22s (26.8 tex)-----pounds:	93	107	105 : 110
50s (11.8 ")----- " :	31	37	37 : 38
Average break factor-----7/:	1798	2102	2080 : 2160
Yarn appearance:			
22s (26.8 tex)-----grade:	C+	C	C+ : C
50s (11.8 ")----- " :	C	D+	C : D+
Average yarn appearance----index 8/:	95	85	95 : 85

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For footnotes see page 24.

Table 2.--Results of classification, fiber tests, and carded yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 9-1/2 pounds per hour and a twist multiplier of 4.00, crop of 1958--Continued

Variety	:	Plains	:	Coker 100W				
State	:	Alabama	:	North Carolina				
Market area	:	Burkville	:	Centre	:	Smithfield	:	Windsor
Percentage of variety at gin	:	100	:	100	:	98	:	100
Period of harvest	:	Late	:	Midseason	:	Late	:	Late
RAW COTTON QUALITY								
Classification (official standards):	:	:	:	:	:	:	:	:
Grade-----designation:	:	Mltsp	:	M	:	SIM	:	SIM
Staple length-----inches:	:	1-1/32	:	1-1/32	:	1	:	1-1/32
Fiber length (Fibrograph):	:	:	:	:	:	:	:	:
Upper half mean-----inches:	:	1.02	:	1.04	:	.98	:	1.04
Uniformity-----ratio:	:	81	:	79	:	81	:	81
Fiber fineness and maturity:	:	:	:	:	:	:	:	:
Micronaire-----reading <u>1/</u> :	:	4.1	:	4.0	:	4.4	:	4.2
Fineness (Causticaire)---ug/inch <u>2/</u> :	:	4.4	:	4.1	:	4.6	:	4.5
Maturity (")-----index:	:	76	:	77	:	78	:	76
Fiber tensile strength (Pressley):	:	:	:	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	80	:	81	:	82	:	79
" " -----grams per tex <u>3/</u> :	:	39.8	:	39.9	:	40.6	:	39.0
1/8" " ----- " " " :	:	20.3	:	21.1	:	20.4	:	21.2
Nonlint content: <u>4/</u>	:	:	:	:	:	:	:	:
Visible waste-----percent:	:	2.4	:	1.7	:	1.8	:	1.6
Invisible waste----- " :	:	0.9	:	0.7	:	0.7	:	0.7
Total nonlint content----- " :	:	3.3	:	2.4	:	2.5	:	2.6
Color of raw cotton: <u>5/</u>	:	:	:	:	:	:	:	:
Reflectance-----Rd:	:	72.5	:	74.5	:	73.3	:	67.0
Yellowness-----+b:	:	9.9	:	8.4	:	8.5	:	7.9
Sugar content-----percent:	:	0.1	:	0.0	:	0.0	:	0.0
Acid-alkaline value-----pH units <u>6/</u> :	:	9.1	:	8.5	:	8.4	:	8.8
PROCESSING RESULTS								
Manufacturing waste:	:	:	:	:	:	:	:	:
Picker and card-----percent:	:	8.4	:	8.2	:	8.3	:	7.1
Neps-----per 100 sq. in. of card web:	:	14	:	21	:	27	:	15
Yarn skein strength:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	108	:	116	:	111	:	113
50s (11.8 ")----- " :	:	36	:	40	:	38	:	40
Average break factor----- <u>7/</u> :	:	2088	:	2276	:	2171	:	2243
Yarn appearance:	:	:	:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	C+	:	B	:	C+	:	B
50s (11.8 ")----- " :	:	C+	:	C+	:	C+	:	C+
Average yarn appearance----index <u>8/</u> :	:	100	:	105	:	100	:	105

For footnotes see page 24.

Table 3.--Results of classification, fiber tests, and carded and combed (in parentheses) yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 6-1/2 pounds per hour and a twist multiplier of 3.80, crop of 1958

Variety	:	Acala 1517C			
State	:	New Mexico			
Market area	:	Deming	Dexter	Garfield	Lake Arthur
Percentage of variety at gin:	:	100	88	100	90
Period of harvest	:	Early	Early	Early	Early
RAW COTTON QUALITY					
Classification (official standards):	:	:	:	:	:
Grade-----designation:	:	SM	M	SM	M
Staple length-----inches:	:	1-5/32	1-5/32	1-5/32	1-5/32
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	:	1.16	1.16	1.17	1.13
Uniformity-----ratio:	:	82	83	82	81
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading <u>1</u> /:	:	3.9	4.0	4.0	4.0
Fineness (Causticaire)-ug/inch <u>2</u> /:	:	4.0	4.1	4.1	4.1
Maturity (")-----index:	:	76	76	78	77
Fiber tensile strength (Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	:	85	86	86	81
" " -----grams per tex <u>3</u> /:	:	42.2	42.7	42.8	43.9
<u>1/8</u> " " ----- " " " " :	:	23.9	24.4	23.9	23.9
Nonlint content: <u>4</u> /:	:	:	:	:	:
Visible waste-----percent:	:	0.6	1.5	0.8	1.0
Invisible waste----- "	:	0.4	0.8	0.7	0.8
Total nonlint content----- "	:	1.0	2.3	1.5	1.8
Color of raw cotton: <u>5</u> /:	:	:	:	:	:
Reflectance-----Rd:	:	79.4	74.6	76.5	74.5
Yellowness-----+b:	:	7.8	7.9	7.9	8.2
Sugar content-----percent:	:	0.2	0.1	0.1	0.1
Acid-alkaline value-----pH units <u>6</u> /:	:	7.3	8.0	8.0	8.6
PROCESSING RESULTS					
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	:	6.9	7.9	7.5	7.6
Comber----- "	:	12.5	13.8	13.7	14.1
Neps-----per 100 sq. in. of card web:	:	19	20	24	18
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	:	139(150)	136(148)	137(147)	131(144)
50s (11.8 ")----- "	:	50(53)	48(53)	48(53)	46(51)
Average break factor----- <u>7</u> /:	:	2779(2975)	2696(2953)	2707(2942)	2591(2859)
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	:	B (B+)	C+(B)	C+(B)	C+(B)
50s (11.8 ")----- "	:	C+(C+)	C (C+)	C+(C+)	C (C+)
Average yarn appearance---index <u>8</u> /:	:	105(110)	95(105)	100(105)	95(105)

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Table 3.--Results of classification, fiber tests, and carded and combed (in parentheses) yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 6-1/2 pounds per hour and a twist multiplier of 3.80, crop of 1958--
Continued

Variety	:	Acala 1517C	:	Acala 1517 BR	
State	:	New Mexico	:	Texas	
Market area	:	Loving	:	Pecos	
Percentage of variety at gin	:	92	:	70	
Period of harvest	:	Early	:	Early	
RAW COTTON QUALITY					
Classification (official standards):	:	:	:	:	
Grade-----designation:	M	:	M	:	M
Staple length-----inches:	1-5/32	:	1-5/32	:	1-3/16
Fiber length (Fibrograph):	:	:	:	:	:
Upper half mean-----inches:	1.14	:	1.15	:	1.19
Uniformity-----ratio:	82	:	77	:	79
Fiber fineness and maturity:	:	:	:	:	:
Micronaire-----reading <u>1</u> /:	3.9	:	4.0	:	3.9
Fineness (Causticaire)---ug/inch <u>2</u> /:	4.0	:	4.1	:	3.9
Maturity (")-----index:	76	:	77	:	76
Fiber tensile strength (Pressley):	:	:	:	:	:
Zero gauge-----1,000 p.s.i.:	90	:	88	:	81
" " -----grams per tex <u>3</u> /:	44.3	:	43.7	:	40.2
1/8" " ----- " " " " " " :	24.7	:	23.9	:	23.3
Nonlint content: <u>4</u> /	:	:	:	:	:
Visible waste-----percent:	1.2	:	1.6	:	0.9
Invisible waste----- " :	0.7	:	1.0	:	0.5
Total nonlint content----- " :	1.9	:	2.6	:	1.4
Color of raw cotton: <u>5</u> /	:	:	:	:	:
Reflectance-----Rd:	75.0	:	75.0	:	76.5
Yellowness-----+b:	8.1	:	8.2	:	8.5
Sugar content-----percent:	0.1	:	0.0	:	0.1
Acid-alkaline value-----pH units <u>6</u> /:	8.4	:	8.9	:	8.4
PROCESSING RESULTS					
Manufacturing waste:	:	:	:	:	:
Picker and card-----percent:	7.5	:	8.2	:	7.4
Comber----- " :	14.4	:	13.4	:	12.9
Neps-----per 100 sq. in. of card web:	20	:	18	:	20
Yarn skein strength:	:	:	:	:	:
22s (26.8 tex)-----pounds:	137(147)	:	135(147)	:	130(138)
50s (11.8 ")----- " :	48(52)	:	48(53)	:	46(49)
Average break factor----- <u>7</u> /:	2707(2917)	:	2685(2942)	:	2580(2743)
Yarn appearance:	:	:	:	:	:
22s (26.8 tex)-----grade:	C+ (B)	:	C+ (B)	:	C+ (C+)
50s (11.8 ")----- " :	C+ (C+)	:	C (C+)	:	C (C+)
Average yarn appearance----index <u>8</u> /:	100 (105)	:	95 (105)	:	95 (100)

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For footnotes see page 24.

Table 3.--Results of classification, fiber tests, and carded and combed (in parentheses) yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 6-1/2 pounds per hour and a twist multiplier of 3.80, crop of 1958--
Continued

Variety	Acala 1517	BR: Coker 100W	Deltapine 15
State	Texas	N. Carolina	Arkansas
Market area	Van Horn	Shelby	Leachville
Percentage of variety at gin	99	100	100
Period of harvest	Early	Midseason	Early
RAW COTTON QUALITY			
Classification (official standards):			
Grade-----designation:	M	SIM	M
Staple length-----inches:	1-5/32	1-1/16	1-1/16
Fiber length (Fibrograph):			
Upper half mean-----inches:	1.13	1.06	1.09
Uniformity-----ratio:	80	81	80
Fiber fineness and maturity:			
Micronaire-----reading <u>1</u> /:	4.0	4.4	4.0
Fineness (Causticaire)---ug/inch <u>2</u> /:	4.2	4.6	4.2
Maturity (")-----index:	77	78	76
Fiber tensile strength (Pressley):			
Zero gauge-----1,000 p.s.i.:	82	79	80
" " -----grams per tex <u>3</u> /:	40.8	39.2	39.5
1/8" " ----- " " " :	22.6	21.1	22.4
Nonlint content: <u>4</u> /:			
Visible waste-----percent:	1.0	2.5	0.8
Invisible waste----- "	0.9	0.6	0.6
Total nonlint content----- "	1.9	3.1	1.4
Color of raw cotton: <u>5</u> /:			
Reflectance-----Rd:	75.5	73.5	74.6
Yellowness-----+b:	8.5	8.3	8.6
Sugar content-----percent:	0.0	0.2	0.0
Acid-alkaline value-----pH units <u>6</u> /:	8.5	7.5	8.4
PROCESSING RESULTS			
Manufacturing waste:			
Picker and card-----percent:	9.0	8.4	7.9
Comber----- "	12.5	12.0	14.3
Neps-----per 100 sq. in. of card web:	23	9	20
Yarn skein strength:			
22s (26.8 tex)-----pounds:	126(137)	118(126)	116(129)
50s (11.8 ")----- "	45(49)	41(44)	41(46)
Average break factor----- <u>7</u> /:	2511(2732)	2323(2486)	2301(2569)
Yarn appearance:			
22s (26.8 tex)-----grade:	C+ (B)	B (B+)	B (C+)
50s (11.8 ")----- "	C (C+)	B (B+)	C+(C+)
Average yarn appearance----index <u>8</u> /:	95 (105)	110(120)	105(100)

(Continued on page 23)

Table 3.--Results of classification, fiber tests, and carded and combed (in parentheses) yarn processing tests for specified varieties of cotton by state, market area, and period of harvest, processed at a card production rate of 6-1/2 pounds per hour and a twist multiplier of 3.80, crop of 1958--
Continued

Variety	:Deltapine 15 :	Delfos 9169	
State	:Mississippi :	Mississippi :	Missouri
Market area	: Tunica :	Belzoni :	Hornersville
Percentage of variety at gin	: 100 :	95 :	90
Period of harvest	: Early :	Early :	Midseason
RAW COTTON QUALITY	:	:	:
Classification (official standards):	:	:	:
Grade-----designation:	M :	SIM :	SIM
Staple length-----inches:	1-1/16 :	1-1/16 :	1-3/32
Fiber length (Fibrograph):	:	:	:
Upper half mean-----inches:	1.07 :	1.09 :	1.12
Uniformity-----ratio:	82 :	75 :	75
Fiber fineness and maturity:	:	:	:
Micronaire-----reading 1/:	4.4 :	4.0 :	3.8
Fineness (Causticaire)---ug/inch 2/:	4.5 :	4.4 :	3.9
Maturity (")-----index:	79 :	74 :	75
Fiber tensile strength (Pressley):	:	:	:
Zero gauge-----1,000 p.s.i.:	80 :	79 :	73
" " -----grams per tex 3/:	39.5 :	39.2 :	36.2
1/8" " ----- " " " :	22.4 :	20.6 :	20.8
Nonlint content: 4/	:	:	:
Visible waste-----percent:	1.4 :	2.7 :	1.8
Invisible waste----- " :	0.8 :	0.9 :	0.6
Total nonlint content----- " :	2.2 :	3.6 :	2.4
Color of raw cotton: 5/	:	:	:
Reflectance-----Rd:	72.5 :	71.4 :	76.0
Yellowness-----+b:	10.6 :	7.7 :	7.9
Sugar content-----percent:	0.0 :	0.0 :	0.2
Acid-alkaline value-----pH units 6/:	7.9 :	7.4 :	6.8
PROCESSING RESULTS	:	:	:
Manufacturing waste:	:	:	:
Picker and card-----percent:	9.4 :	10.0 :	9.0
Comber----- " :	15.0 :	16.3 :	15.4
Neps-----per 100 sq. in. of card web:	20 :	27 :	27
Yarn skein strength:	:	:	:
22s (26.8 tex)-----pounds:	110(120) :	106(116) :	114(127)
50s (11.8 ")----- " :	39(43) :	37(41) :	40(45)
Average break factor-----7/:	2185(2395) :	2091(2301) :	2254(2522)
Yarn appearance:	:	:	:
22s (26.8 tex)-----grade:	C+(B) :	C+(C+) :	C (C+)
50s (11.8 ")----- " :	C (C+) :	C (C+) :	D+(C)
Average yarn appearance----index 8/:	95(105) :	95(100) :	85(95)

FOOTNOTES

- 1/ Fiber fineness and maturity in combination as measured on untreated samples using the curvilinear scale for upland cotton.
- 2/ Fineness and maturity as determined by the Causticaire method using the Micronaire instrument.
- 3/ Tex is the universal unit for designating linear density of textile materials as adopted by the International Standards Organization (ISO). A tex unit equals the weight in grams of 1,000 meters of the material.
- 4/ As determined by means of the Shirley Analyzer.
- 5/ Determined by the Nickerson-Hunter Colorimeter on raw stock. R_d values indicate percent reflectance from 0 to 100 and +b values indicate degree of yellowness.
- 6/ Values below 7.0 indicate acidity. Values above 7.0 indicate alkalinity which when associated with abnormally low sugar content may indicate fiber degradation due to weathering or from the action of micro-organisms.
- 7/ Based on yarn skein strength (number x strength) of the two yarn numbers spun.
- 8/ Based on two numbers spun. Index of average quality equals 100.

